Translation





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

07 OCT 2004

Applicant's or agent's file reference B 3552	FOR FURTHER ACT	TION See Notific	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)				
International application No. PCT/FR2003/001103	International filing date 08 avril 2003 (0		Priority date (day/month/year) 08 avril 2002 (08.04.2002)				
International Patent Classification (IPC) or n B05B 1/34, 7/04	ational classification and	IPC					
Applicant SAINT GOBA	IN CERAMIQUES	AVANCEES DE	SMARQUEST				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of							
This report is also accompan amended and are the basis for 70.16 and Section 607 of the	or this report and/or sheets	s containing rectifications	on, claims and/or drawings which have been ations made before this Authority (see Rule				
These annexes consist of a to	otal of 2 sl	heets.					
3. This report contains indications rela	ating to the following iten	ns:					
I Basis of the report							
II Priority							
III Non-establishment	of opinion with regard to	novelty, inventive s	tep and industrial applicability				
IV Lack of unity of in	vention						
Reasoned statemen	nt under Article 35(2) with nations supporting such s	n regard to novelty, i tatement	nventive step or industrial applicability;				
VI Certain documents	cited						
VII Certain defects in	VII Certain defects in the international application						
VIII Certain observations on the international application							
Date of submission of the demand		Date of completion	of completion of this report				
17 octobre 2003 (17.10.2003)		1	6 July 2004 (16.07.2004)				
Name and mailing address of the IPEA/EI)	Authorized officer					
Facsimile No.		Telephone No.					



Internal application No.
PCT/FR2003/001103

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1. \	Vith 1		the elements of the international application:*					
	\boxtimes	the inter	national application as originally filed					
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		pages	1-4, 6-20		, filed with the demand			
		pages _	5	, filed with the letter of				
		pages -	3	, med with the rest of				
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		pages .		as amended (together	with any statement under Article 19			
		pages .		, as amended (together	, filed with the demand			
		pages	1-16	filed with the letter of	20 April 2004 (20.04.2004)			
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		pages			, med with the demand			
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	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in where the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language							
4		been	statement that the information recorded in computer furnished. Immendments have resulted in the cancellation of:	readable form is identic	al to the written sequence fishing has			
			the claims, Nos the drawings, sheets/fig		the state of the same and the same			
- 1	5.	⊐ beyor	report has been established as if (some of) the amendad the disclosure as filed, as indicated in the Suppleme	niai Box (Ruie 70.2(c)).				
١	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.1) and 70.17).							
	** An	ıy replace	ment sheet containing such amendments must be refer	rrea to unaer ttem 1 ana ar	mesea to ma report			

/ .	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

. Statement			
Novelty (N)	Claims	1-16	YES
	Claims		· NO
Inventive step (IS)	Claims	1-16	YES
• • •	Claims		NO
Industrial applicability (IA)	Claims	1-16	YES
	Claims		NO

2. Citations and explanations

Claim 1

Claim 1 meets the requirements of PCT Article 33(2)-(4) with respect to novelty, inventive step and industrial applicability.

The features of independent claim 1 are not mentioned in their entirety in any one of the documents cited in the search report or in the description. Therefore, the subject matter of claim 1 is novel.

The invention is based on the prior art described in document FR 1512626. Said document describes a spray nozzle consisting of a body defining an axial cavity and having, at one end thereof, an inlet aperture for a liquid to be sprayed and, at the other end thereof, a spray aperture, wherein said nozzle includes an axial liquid flow calibration channel that communicates directly with said spray aperture, a so-called divergent part, the shape of which is suitable for separating the liquid flow into laminar flows and rotating same, and a so-called convergent part with an axial channel that communicates with said spray aperture and the shape of which is suitable for merging back said laminar flows into a single stream.

The subject matter of the invention differs from this prior art in that said divergent part is retained in the nozzle body recess, on the downstream side, merely by engaging with an area of the cavity wall that has a suitable profile and, on the upstream side, via a cap.

The specific construction of each component of the device is neither known from the prior art cited in the search report nor considered by a person skilled in the art to be an obvious or commonplace selection.

Claims 2-16

Claims 2 to 16 relate to specific embodiments of the subject matter described in claim 1. Therefore, the requirements of PCT Article 33(2)-(4) are also satisfied.

Additional observations

Contrary to the requirements of PCT Rule 5.1(a)(ii), the description does not outline the relevant prior art set forth in document FR1512626 and does not cite this document.